

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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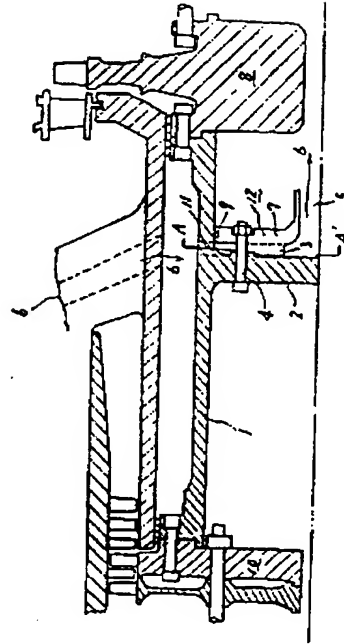
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APPLICANT : HITACHI LTD;

INVENTOR : TERANISHI MITSUO;

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TITLE : COOLING AIR CENTRIFUGAL  
ACCELERATOR FOR GAS TURBINE



ABSTRACT : PURPOSE: To aim at improvement in flexural rigidity of a rotor by installing a disc part, extending toward the rotor center, in and around a through hole of a distant piece, and forming a centripetal bladelike groove in a side face of this disc part.

CONSTITUTION: A through hole 11 is installed in a distant piece 1, and cooling air is introduced from the outside. A disc part 2, extending toward the rotor center, is installed in and around this hole 11. An impeller 12, forming a centripetal bladelike groove 3, is attached to the disc part 2 via a bolt 4. With this constitution, the distant piece can be formed into an integral construction, thus rotor's flexural rigidity is improvable.

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